

**WESTBAY
WELL SUMMARY**

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Location ID: WB-5 Field Representative(s): M. Canavan, P. Egan

Date Started: 04/23/90 Date Completed: 06/14/90

Northing: 221057.44 Easting: 416710.22

Brass Cap: 4872.41 Outer Casing: 4872.55 Inner Casing: 4873.58

Drilling Method: Mud rotary; Air foam Drilling Contractor: Larjon Drilling Co.

Driller: J.Gower, J.Clanton

Total Depth Borehole: 415'; sounded at 409.9' Total Depth Well Casing: 400'

Total Depth Surface Casing: 169'

Diameter Well Casing: 2 in. Diameter Surface Casing: 5 in.

Water Producing (packed-off) Intervals: 240' to 255'

Water Producing (packed-off) Intervals: 275' to 290'

Water Producing (packed-off) Intervals: 335' to 355'

Water Producing (packed-off) Intervals: 375' to 385'

Water Zone(s) Detected: 245', 290', 350'-397' Water Level Open Borehole: 222.26(g.s.)

Quik-Foam Use: no recorded

Estimated Water Use: 4,700 gallons

Well Casing:

2in x 2ft SCD 80 PVC:	<u>1</u>	=	<u>2</u>	ft
2in x 5ft SCD 80 PVC:	<u>10</u>	=	<u>50</u>	ft
2in x 10ft SCD 80 PVC:	<u>31</u>	=	<u>310</u>	ft
Total SCD 80 PVC pipe:			<u>362</u>	ft

5ft MP packer:	<u>8</u>	=	<u>40</u>	ft
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Regular coupling:	<u>36</u>	=		ft
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Pumping port coupling:	<u>4</u>	=		ft
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Measurement port coupling:	<u>9</u>	=		ft
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End cap:	<u>1</u>	=		ft
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Casing Clamp:

Magnetic collar:	<u>4</u>			
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Well Completion:

100# bags 16/40 sand:	bags
100# bags 10/20 sand:	bags
100# bags 8/14 sand:	bags
100# bags 8/20 sand:	bags

94# bags cement:	bags
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5 gal. buckets bentonite:	buckets
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50# bentonite powder:	bags
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Benseal:	bags
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Surface Casing:

94# bags cement:	bags
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50# bags bentonite powder:	bags
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Grout:	bags
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Pertinent Field Notes:

04/23/90	Spud WB-5 using mud rotary (7 7/8" bit). Drilled 0'-150' through gravelly alluvium. Alluvium became indurated at 148'. - Canavan
04/24/90	Continued drilling - 150'-168½'. Encountered limestone bedrock at 160'. - Canavan
04/25/90	Installed 169' x 5" surface casing; mobilized to WB-7. - Canavan
05/11/90	Drilled 169'-205' with air foam-rotary/4" hammer bit. - Canavan
05/14/90	Drilled 205'-230' with air foam-rotary/4" hammer bit. - Canavan
05/15/90	Drilled *225'-285' with air foam rotary and 4" hammer bit. First observation of small amount of formation water in drilling fluid at 245'. *Discrepancy in depth due to driller re-measuring pipe.
05/16/90	Drilled 285'-305'. Drilling extremely slow. Discharge fluids thinned at 290'. Plugged hammer at 1505 (305'). Tripped out early and took bit in for sharpening. - Canavan
05/17/90	Drilled 305'-310' with new 3 7/8" bit and hammer. Drill collar wedged in borehole. Need to ream borehole to 4". - Canavan

05/18/90 Had to ream borehole twice with two 4" milltooth (tricone) bits because of severe bit wear. Drilled 310'-340'. - Canavan

05/21/90 Drilled 340'-415'. Good water production between 350'-397'. TD hole at 415'. - Canavan

05/23/90 Southwest Surveys logged Westbay 5. Standard suite plus drift. - Canavan

05/31/90 Larjon attempted to run PVC sleeve into WB-5. Sub broke and PVC dropped to 140'. Fished it out. - Canavan

06/01/90 Larjon successfully ran PVC sleeve into WB-5 to 400'. Bottom of borehole sounded at 409.9'. - Canavan

06/13/90 Installed Westbay well casing. - Canavan

06/14/90 Inflated packers (8) to complete installation. - Canavan